

CURRICULUM VITA

Swapna Mukhopadhyay
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Education

Ph.D.	1989	Elementary Education, Syracuse University
B. Sc.	1970	Physics, Calcutta University, Calcutta, India

Employment

Professor, Curriculum & Instruction, Portland State University, Portland, OR.	9/12-current
Associate Professor, Curriculum & Instruction, Portland State University, Portland, OR.	9/06-9/12
Assistant Professor, Curriculum & Instruction, Portland State University, Portland, OR.	9/02-9/06
Faculty fellow, Center for Learning and Teaching in the West (CLT-W), Portland State University, Portland, OR	9/02-6/09
Associate Member, Center for Research in Mathematics & Science Education, (CRMSE), San Diego State University, San Diego, CA.	1/02-7/02
Associate member, Laboratory of Comparative Human Cognition, University of California, San Diego, CA.	1/02-7/02
Post-doctoral Research Assistant for Professor Joanne Lobato, San Diego State University, San Diego, CA. Project: <i>Mathematics Classrooms: The Learners' Perspective</i> .	9/01-6/02
Lecturer, School of Teacher Education, San Diego State University, San Diego, CA.	8/00-6/02
Instructor, Professional Development Institute for middle school teachers, San Diego State University, San Diego, CA.	Summer, 01

Core Faculty, Graduate Program in Education, Antioch University, Seattle, WA.	9/98-6/99
Adjunct Professor, South Asian Studies Program, Jackson School of International Studies, University of Washington, Seattle, WA.	9/91-8/98
Visiting Professor, Shell Center of Mathematics Education, Nottingham University, University Park, Nottingham, UK.	Summer/97
Visiting Assistant Professor, Department of Curriculum and Instruction, Human Resources and Education, West Virginia University, Morgantown, WV.	7/90-7/91
Research Associate for Professor Herbert P. Ginsburg, Developmental and Educational Psychology Department, Teachers College, Columbia University, New York, NY. Project: <i>Assessment alternatives for children's mathematical understanding in a formal context.</i>	10/89-5/90
Post-doctoral Fellow with Prof. Lauren B. Resnick, Learning Research and Development Center, University of Pittsburgh, Pittsburgh, PA. Project: <i>Informal and intuitive understanding of negative numbers in children.</i>	5/88-8/89
Graduate Assistant for the study of the Teaching Department at Syracuse University, School of Education, Syracuse, NY.	9/80-3/88
Teacher at Patha Bhavan, an alternative school in Calcutta, India. Elementary mathematics and science.	7/73-12/79

Dissertation

Mukhopadhyay, S. (1989). *Spatial skills among three different occupational groups in India*. (Doctoral dissertation, Syracuse University, 1989). *Dissertation Abstracts International*, AAT 9013501.

Publications

Books

Mukhopadhyay, S., & Roth, W-M. (Eds.). (in press). *Alternative forms of knowing (in) mathematics*. Rotterdam, The Netherlands: Sense Publishers.

Greer, B., Mukhopadhyay, S., Powell, A. B., & Nelson-Barber, S. (Eds.). (2009). *Culturally responsive mathematics education*. New York, London: Routledge.

Verschaffel, L., Greer, B., Van Dooren, W., & Mukhopadhyay, S. (Eds.). (2009). *Words and worlds: Modelling verbal descriptions of situations*. Rotterdam, The Netherlands: Sense Publishers.

Refereed Publications

Chapters

Mukhopadhyay, S. & Greer, B (2012). Ethnomathematics. In J. A. Banks (Ed.), *Encyclopedia of diversity in education* (pp.858-62). Thousand Oaks, CA: SAGE, *SAGE Reference Online Web*. 6 Aug. 2012.

Greer, B., & Mukhopadhyay, S. (in press). Hegemony of ~~English~~ mathematics. In P. Ernest & B. Sriraman (Eds.), *Critical mathematics education: Theory and praxis*. Charlotte, NC: Information Age Publishing.

Greer, B., & Mukhopadhyay, S. (2012). Hegemony of mathematics. In O. Skovsmose and B. Greer (Eds.), *Opening the Cage: Critique and politics of mathematics education* (pp. 229-248). Rotterdam, The Netherlands: Sense Publishers.

Mukhopadhyay, S. (translated) (2012). Totakahini: The tale of the parrot. [Author: Rabindranath Tagore, first published 1918]. In O. Skovsmose & B. Greer (Eds.), *Opening the Cage: Critique and politics of mathematics education* (pp. 223-225). Rotterdam, The Netherlands: Sense Publishers.

Greer, B., Mukhopadhyay, S., Powell, A. B., & Nelson-Barber, S. (2009). Introduction. In B. Greer, S. Mukhopadhyay, A. B. Powell & S. Nelson-Barber (Eds.), *Culturally responsive mathematics education* (pp. 1-7). New York, London: Routledge.

Mukhopadhyay, S., Powell, A. B., & Frankenstein, M. (2009). An ethnomathematical perspective on culturally responsive mathematics education. In B. Greer, S. Mukhopadhyay, A. B. Powell & S. Nelson-Barber (Eds.), *Culturally responsive mathematics education* (pp. 65-84). New York, London: Routledge.

Greer, B., Verschaffel, L., Van Dooren, W., & Mukhopadhyay, S. (2009). Introduction. In L. Verschaffel, B. Greer, W. Van Dooren & S. Mukhopadhyay (Eds.), *Words and worlds: Modelling verbal descriptions of situations* (pp. xi-xxvii). Rotterdam, The Netherlands: Sense Publishers.

Greer, B., Verschaffel, L., & Mukhopadhyay, S. (2006). Modeling for life: Mathematics in children's experience. In W. Blum, P. Galbraith, H.-W. Henn, & M. Niss (Eds.), *Modelling and applications in mathematics education: The 14th ICMI study* (pp.89-98). New York: Springer.

Greer, B., & Mukhopadhyay, S. (2005). Teaching and learning of mathematization of uncertainty: Historical, cultural, social, and political contexts. In G. Jones (Ed.),

Exploring probability in school: Challenges for teaching and learning (pp. 297-324). New York: Springer-Kluwer.

Mukhopadhyay, S., & Greer, B. (2004). Mathematic and its multicultural origins. In A. Johns & M. K. Sipp (Eds.), *Diversity in college classrooms: Practices for today's campuses* (pp. 187-206). Ann Arbor, MI: University of Michigan Press.

Mukhopadhyay, S., & Greer, B. (2002). Mathematics for all: Rhetoric or right? In L. Bazzini & C. Whybrow Inchley (Eds.), *Mathematical literacy in the digital era* (pp. 124-128). Milan, Italy: Ghisetti E Corvi Editori.

Greer, B., & Mukhopadhyay, S. (2002). Democratizing mathematics education. In S. C. Agarkar & V. D. Lale (Eds.), *Proceedings of the CASTME-UNESCO-HBCSE International Conference on Science, Technology and Mathematics Education for Human Development (Goa, India, February, 2001), Vol. 2* (pp. 191-194). Mumbai, India: Homi Bhabha Centre for Science Education/ Tata Institute of Fundamental Research.

Mukhopadhyay, S., & Greer, B. (2002). Mathematics for socio-political criticism: The issue of gun violence. In S. C. Agarkar & V. D. Lale (Eds.), *Proceedings of the CASTME-UNESCO-HBCSE International Conference on Science, Technology and Mathematics Education for Human Development (Goa, India, February, 2001), Vol. 2* (pp. 195-199). Mumbai, India: Homi Bhabha Centre for Science Education/ Tata Institute of Fundamental Research.

Mukhopadhyay, S., & Greer, B. (2001). Modeling with purpose: Mathematics as a critical tool. In B. Atweh, H. Forgasz & B. Nebres (Eds.), *Socio-cultural aspects in mathematics education: An international perspective* (pp. 295-311). Mahwah, NJ: Lawrence Erlbaum.

Mukhopadhyay, S. (1998). When Barbie goes to classrooms: Mathematics creating a social discourse. In C. Keitel (Ed.), *Social justice and mathematics education: Gender, ethnicity and class and the politics of schooling* (pp.150-161). Berlin: International Organization of Women and Mathematics Education (IOWME) and Freie Universitaet Berlin.

Waxman, B., Robinson, N., & Mukhopadhyay, S. (1996). *Parents nurturing math-talented young children*. (Research Monograph 96230). Storrs, CT: The University of Connecticut, The National Research Center on the Gifted and Talented.

Waxman, B., Robinson, N., & Mukhopadhyay, S. (1996). *Teachers nurturing math-talented young children*. (Research Monograph 96228). Storrs, CT: The University of Connecticut, The National Research Center on the Gifted and Talented.

Mukhopadhyay, S. (1995). Story telling as sense-making: Children's ideas about negative numbers. In Hunting, R., Fitzsimons, G., Clarkson, P. & Bishop, A. (Eds.) *Proceedings of ICMI Conference, Regional Collaboration in Mathematics Education*

(pp. 519-532). Melbourne, Australia: Monash University.

Ginsburg, H. P., Lopez, L., Mukhopadhyay, S., Yamamoto, T., Willis, M., & Kelley, M. S. (1992). Assessing understandings in arithmetic. In R. Lesh & S. Lamon (Eds.), *Assessment of authentic performances in elementary mathematics* (pp. 278-285). Washington, DC: AAAS Press.

Mukhopadhyay, S., Resnick, L. B., & Schauble, L. (1990). Social sense-making in mathematics: Children's ideas of negative numbers. In G. Booker, P. Cobb & T. N. de Mendicuti (Eds.), *Proceedings of the Fourteenth Conference of the Psychology of Mathematics Education, Vol. 3*, (pp. 281-288). Oaxtepec, Mexico: IGPME Program Committee.

Mukhopadhyay, S. (1989). The influence of occupational experience on spatial development of children in a rural Indian setting. In D. M. Topping, D. C. Crowell & V. N. Kobayashi (Eds.), *Thinking across cultures* (pp. 331-338). Hillsdale, NJ: Lawrence Erlbaum.

Peled, I., Mukhopadhyay, S., & Resnick, L. B. (1989). Formal and informal sources of mental models for negative numbers. In G. Vergnaud, J. Rogalski & M. Artique (Eds.), *Proceedings of the Thirteenth Conference of the International Group for the Psychology of Mathematics Education, Vol. 3* (pp. 106-110). Paris: G. R. Didactique.

Articles

Verschaffel, L., Van Dooren, W., Greer, B., & Mukhopadhyay, S. (2010). Reconceptualising word problems as exercises in mathematical modelling. *Journal für Mathematik-Didaktik*, 31(1), 9-29. DOI: 10.1007/s13138-010-0007-x

Lewis, R., Lenski, S. J., Mukhopadhyay, S., & Cartwright, C. T. (2010). Mindful wonderment: Using focus groups to frame social justice. *Journal for Social Action in Counseling and Psychology*, 3(1), 82-105.

Mukhopadhyay, S. (2009). The decorative impulse: Ethnomathematics and Tlingit basketry. *Zentralblatt für Didaktik der Mathematik*, 41(1-2), 117-130.

Mukhopadhyay, S. (2005). Deconstructing Barbie. Math and popular culture. In E. Gutstein & B. Peterson (Eds.), *Rethinking mathematics. Teaching social justice by the numbers* (pp. 122-123). Milwaukee, WI: Rethinking Schools.

Greer, B., & Mukhopadhyay, S. (2003). What is mathematics education for? *The Mathematics Educator*, 13(2), 2-6.

Robinson, N. M., Abbott, R. D., Berninger, V. W., Busse, J., & Mukhopadhyay, S. (1997). Developmental changes in mathematically precocious young children: Longitudinal and gender effects. *Gifted Child Quarterly*, 41, 145-158.

- Mukhopadhyay, S. (1997). Story telling as sense-making: Children's ideas about negative numbers. *Hiroshima Journal of Mathematics Education*, 5, 35-50.
- Mukhopadhyay, S. (1996). Self-portrait: A tool for understanding teaching mathematics. *Mathematics Education Research Journal*, 8(3), 101-118.
- Silver, E. A., Mukhopadhyay, S., & Gabriele, A. J. (1992). Referential mappings and the solution of division story problems involving remainders. *Focus on Learning in Mathematics*, 14(3), 29-39.

Non-Refereed Publications

Articles

- Mukhopadhyay, S. (2011). Deconstructing Barbie: Math and popular culture. In E. Marshall & Ö. Sensoy (Eds.), *Rethinking popular culture and media* (pp. 187-188). Milwaukee, WI: Rethinking Schools.
- Mukhopadhyay, S., & Greer, B. (2007). How many deaths? Education for statistical empathy. *Monograph of The Montana Mathematics Enthusiast*, 1, 119-135.
- Mukhopadhyay, S. (2000). The good, the bad, and the ugly: Alternative visions of mathematics education. *Newsletter for The Washington Center for Undergraduate Education*. Evergreen State College, WA.
- Mukhopadhyay, S., & Warfield, V. (1995, Spring). Mathematics in the making: An experience in teaching without telling. *Record in Educational Leadership*, 15(2), 79-82.
- Mukhopadhyay, S., & Warfield, V. (1995). Mathematics in the making: An experience in teaching without telling. *Canadian Mathematical Society Notes*, 27(2), 14-17.

Book Reviews

- Greer, B., & Mukhopadhyay, S. (in press). A sociocultural approach to mathematics education [Review of the book *A Journey in Mathematics Education Research Insights from the Work of Paul Cobb*] Mind, Culture, & Activity.
- Greer, B., & Mukhopadhyay, S. (2010). [Review of the book *The language of mathematics: Telling mathematical tales*]. *Educational Studies in Mathematics*, 73, 211-215.
- Greer, B., & Mukhopadhyay, S. (2005). Education is politics [Review of the book *In Search of a Pedagogy of Conflict and Dialogue*]. *Journal for Research in Mathematics Education*, 36, 74-79.

Presentations at Professional Meetings

Invited - Plenary

Mukhopadhyay, S. (2013, April). The mathematics of those without power. 7th Mathematics Education and Society conference (MES 7), Cape Town, South Africa.

Mukhopadhyay, S. (2007, May). *The decorative impulse: Ethnomathematics and Tlingit basketry*. 2nd International Symposium on Mathematics and its Connections to Arts and Sciences (MACAS2), Odense, Denmark.

Verschaffel, L., Greer, B., & Mukhopadhyay, S. (2004, February). *Modeling for life: Mathematics in children's experience*. International Commission of Mathematical Instruction (ICMI) Study 14: Applications and modeling in mathematics education, Dortmund, Germany.

Invited - Keynote

Mukhopadhyay, S. (2004, January). *Bringing mathematics back to life: Bringing life back to mathematics*. Justice and Access in Mathematics and Science Education. Berkeley, CA.

Invited - Presentations

Mukhopadhyay, S. (2012, February). *Ethnomathematics: An essential conversation*. Seminar on Ethnomathematics and its implications for Education. Radhanagar (Hooghly), West Bengal, India.

Mukhopadhyay, S. (2012, February). *Ethnomathematics: A brief discussion*. Forty first annual conference of Association for Improvement of Mathematics Teaching (AIMT), Julpia Andharmanick High School, Bishnupur (S. 24 Parganas), West Bengal, India.

Mukhopadhyay, S. (2011, December). *Making visible: Mathematics of cultural practices*. Regional conference on Mathematics Education. Patna University, Patna.

Mukhopadhyay, S. (2011, December). *Making visible: Mathematics of cultural practices*. National seminar on The History and Cultural Aspects of Mathematics Education. Indira Gandhi National Open University (IGNOU), New Delhi.

Mukhopadhyay, S., & Greer, B. (2011, April). *Teaching mathematics as a multicultural activity*. National Association of Multicultural Education (NAME) – Oregon chapter, Eugene, OR.

Mukhopadhyay, S. (2011, April). *Vernacular engineering: Traditional methods of wooden boat-building in India*. AISES Regional I Conference. *Taking Root: Solidifying Indigenous Ideas in a Changing Global Economy*. Portland State University, Portland, OR.

- Mukhopadhyay, S. (2011, March). *Vernacular engineering: Traditional boatbuilding in India*. United Nations Educational, Scientific, and Cultural Organization Headquarters, Paris.
- Mukhopadhyay, S. (2010, February). *The decorative impulse: Ethnomathematics and Tlingit basketry*. Mathematics in the service of Arts Conference, Baruaipur Collge, Baruaipur, West Bengal, India.
- Mukhopadhyay, S. (2009, March). *The appreciation of pattern: Beauty and structure*. Wooshteen Kanaxtulaneeegí Haa At Wuskóowu, Sharing our Knowledge: A Conference of Tlingit Tribes and Clans, Juneau, AK.
- Mukhopadhyay, S. (2008, October). *Ethnomathematics: Legitimizing the link between culture and mathematics*. Sealaska Heritage Institute, Juneau, AK.
- Mukhopadhyay, S. (2007, December). *When Barbie goes to classrooms, OR, Getting to know Barbie, seriously!* Seminar jointly organized by Center for Cognitive Science and Women's Studies, Jadavpur University, Calcutta, India.
- Mukhopadhyay, S. (2007, December). *The decorative impulse: Ethnomathematics and Tlingit basketry*. International Conference on Analysis, Geometry and Foundations & Logic of Mathematics. Department of Pure mathematics, University of Calcutta, Calcutta, India.
- Mukhopadhyay, S. (2007, September). *Looking back to move forward: Establishing Ethnomathematics as a cultural framework*. Indian Education Summit, Rapid City, SD.
- Mukhopadhyay, S. (2007, April). *Beyond essentialism: Ethnomathematics for global literacies*. Spring Colloquium on Global Literacies, Asian Studies, Portland State University, Portland, OR.
- Mukhopadhyay, S. (2002, May). *Why invite Barbie doll to a math class? Seeing the meanings of proportions* Bob Moses Day, Lanier High School, Jackson, MS.
- Mukhopadhyay, S. (2002, July). *Ethnomathematics and social justice*. Center for Instructional Psychology & Technology, Department of Educational Sciences, University of Leuven, Belgium.
- Mukhopadhyay, S. (2002, July). *Statistics, education, and social issues: Analyzing gun violence*. Workshop for Mathematics Teachers. Centre for School Science and Mathematics Education, University of Western Cape, Bellville, South Africa.
- Mukhopadhyay, S., & Greer, B. (2001, April). *Modeling with purpose: Mathematics as a critical tool*. Laboratory of Comparative Human Cognition, University of California, San Diego, CA.

- Mukhopadhyay, S. (1998, April). *Mathematics as a cultural construction: A step towards political correctness?* Feminist Research Forum, the Northwest Center for Research on Women, University of Washington, Seattle. WA.
- Mukhopadhyay, S. (1998, April). *Mathematics: Who owns it?* Highline Community College, Des Moines, WA.
- Mukhopadhyay, S. (1997, May). *Art dialogue: Indian textiles as artifacts*. Henry Art Gallery, University of Washington, Seattle, WA.
- Mukhopadhyay, S. (1997, May). *Indian folk traditions in pottery and weaving*. Slide-show presentation, Pottery Northwest, Seattle, WA.
- Mukhopadhyay, S. (1996, January). *Math and art: Integrating the study of Indian patterns and designs in math curricula*. Exploring Threads: Exploring India through its textiles. Henry Art Gallery, University of Washington, Seattle, WA.
- Mukhopadhyay, S. (1995, December). *Unfolding number sense: Or, how does a child learn arithmetic?* Patha Bhavan, Calcutta, India.
- Mukhopadhyay, S. (1995, October). *Is mathematics a cultural construction?* Feminist Research Forum, The Northwest Center for Research on Women, University of Washington, Seattle. WA.
- Mukhopadhyay, S. (1995, April). *Intuitive and informal geometry*. School of Education, University of Auckland, Auckland, New Zealand.
- Mukhopadhyay, S. (1993, September). *Children's knowledge of mathematics: An analysis from the situated cognition perspective*. National Institute of Educational Research, Tokyo, Japan.
- Mukhopadhyay, S. (1993, August). *Story making and story telling: A case of understanding negative numbers*. National Institute of Educational Research, Tokyo, Japan.

Refereed presentations

- Mukhopadhyay, S. (November, 2012). *Non-literate Indian boat-builders: Vernacular engineering and the rigor of reality*. 111th Annual meeting of the American Anthropological Association, San Francisco, CA.
- Hopson, J., Vosk, M., Sitomer, A., & Mukhopadhyay, S. (2011, October). *Stories of Subversion: Mathematics in Action*. 4th Northwest Conference on Teaching for Social Justice, Seattle, WA.
- Mukhopadhyay, S. (2011, October). *Who gets killed: Mathematics for understanding gun violence in youth*. 11th Annual Conference on Teaching for Social Justice, San

- Francisco, CA.
- Mukhopadhyay, S. (2011, October). *Forging a stronger connection between mathematics and culture*. 50th Northwest Math Conference, Portland, OR.
- Mukhopadhyay, S., & Greer, B. (2009, May). *Reading the world through large numbers*. National Association of Multicultural Education (NAME) – Oregon chapter. Salem, OR.
- Mukhopadhyay, S. (2008, October). *Beyond Barbie: Moving from scale to social justice*. First Northwest Conference on Social Justice, Seattle, WA.
- Mukhopadhyay, S. (2008, May). *Ethnomathematics: Legitimizing the link between Mathematics and culture*. National Association of Multicultural Education (NAME) – Oregon chapter, Corvallis, OR.
- Mukhopadhyay, S., & Greer, B. (2008, April). *Discounting Iraqi deaths: A societal and educational scandal*. Creating Balance in an Unjust World: Conference on Math Education and Social Justice. Radical Math, New York, NY.
- Mukhopadhyay, S. (2007, December). *Getting to know Barbie seriously*. 50th California Mathematics Council Annual Conference, Asilomar Conference Grounds, Monterey, CA.
- Mukhopadhyay, S. (2007, October). *Ethnomathematics: Learning mathematics through cultural artifacts*. 17th Annual Conference of National Association of Multicultural Education (NAME). Baltimore, MD.
- Mukhopadhyay, S. (2007, April). *Beyond Barbie: Moving from scale to social justice*. Creating Balance in an Unjust World: Conference on Math Education and Social Justice. Radical Math, New York, NY.
- Brantlinger, A., Buenrostro, P., Gutstein, E., & Mukhopadhyay, S. (2007, April). *Teaching mathematics for social justice – Is the math there?* Symposium, 85th Annual Conference of the National Council of Teachers of Mathematics (NCTM) Research Presession. Atlanta, GA.
- Mukhopadhyay, S., & Greer, B. (2007, February). *Mathematical literacy: Reading and writing the world*. 5th International Literacy Conference, Guatemala City, Guatemala.
- Mukhopadhyay, S. (2006, December). *On multiplication: A closer look at some cultural approaches*. 49th California Mathematics Council Annual Conference, Asilomar Conference Grounds, Monterey, CA.
- Mukhopadhyay, S., & Greer, B. (2006, November). *Mathematics education and its role in preparing culturally responsive teachers*. 16th Annual and International meeting of National Association of Multicultural Education (NAME), Phoenix, AZ.

- Mukhopadhyay, S., Lenski, S. J., Lewis, R., & Cartwright, C. (2006, November). *What does social justice mean to me? An analysis of a college-wide perspective*. 16th Annual and International meeting of National Association of Multicultural Education (NAME), Phoenix, AZ.
- Mukhopadhyay, S. (2005, December). *On multiplication: A closer look at some cultural approaches*. 48th California Mathematics Council Annual Conference, Asilomar Conference Grounds, Monterey, CA.
- Mukhopadhyay, S., Heuser, G., & Bergdahl, B. (2005, May). *Beyond measurement: Barbie dolls, social justice, and mathematics*. American Democracy Project National Meeting, Portland, OR.
- Greer, B., & Mukhopadhyay, S. (2005, April). *Radical perspectives on mathematics education and global society*. 83rd Annual Conference of National Council for Teachers of Mathematics (NCTM) Research Presession,, Anaheim, CA.
- Mukhopadhyay, S., Barta, J., Eglash, R., Orey, D., Rosa, M., Sgarlotti, R., & Shockey, T. (2005, April). *Geometry of the indigenous Americans: Classroom connections*. Minicourse, 83rd Annual Conference of the National Council of Teachers of Mathematics (NCTM), Anaheim, CA.
- Mukhopadhyay, S., Bergdahl, B., Engstrom, D., Heuser, G., Kearl, H., & McCuiston, J. (2005, March). *Beyond Barbie: Moving from scale to social justice*. Eighth Annual Conference of Oregon Association of Teacher Educators (ORATE), Portland, OR.
- Mukhopadhyay, S. (2005, February). *Modeling with purpose: Mathematics for empowerment*. First Conference of the Organization for Northern California Ethnomathematics (ONCE), Exploratorium, San Francisco, CA.
- Mukhopadhyay, S., & Greer, B. (2004, November). *Modeling with purpose: Mathematics for empowerment*. Fall Forum, Coalition of Essential Schools, San Francisco, CA.
- Mukhopadhyay, S. (2004, November). *Modeling with purpose: Mathematics for empowerment*. (November, 2004). Conference on Culturally Responsive Mathematics Education. Center for Learning and Teaching in the West (CLT-W), Arlington, VA.
- Mukhopadhyay, S. (2004, July). *Tlingit Indian basketry: An ethnomathematical approach*. Discussion Group 15, 10th International Congress on Mathematical Education (ICME), Copenhagen, Denmark.
- Mukhopadhyay, S. (2003, December). *When Barbie comes to a math classroom*. 46th California Mathematics Council Annual Conference, Asilomar Conference Grounds, Monterey, CA.

- Mukhopadhyay, S., & Greer, B. (2003, November). *Mathematics as a tool for critiquing contemporary society*. Annual meeting of National Association of Multicultural Education (NAME), Seattle, WA.
- Mukhopadhyay, S., & Greer, B. (2003, June). *Modeling with purpose: Mathematics for empowerment*. International Conference on Teacher Education and Social Justice. San Francisco, CA.
- Mukhopadhyay, S. (2002, December). *Ethnomathematics: A hot approach to teach mathematics*. 45th California Mathematics Council Annual Conference, Asilomar Conference Grounds, Monterey, CA.
- Mukhopadhyay, S. (2002, November). *Exploring numeration through quipus: Inca ways of record keeping*. National Council of Teachers of Mathematics (NCTM) Regional Conference, Boston, MA.
- Mukhopadhyay, S. (2002, October). *Cultural studies and mathematics: A case for knowing more about the Native Americans*. 41st Annual North-West Mathematics Conference, Portland, OR.
- Mukhopadhyay, S. (2002, July). *Statistics, education, and social issues: Analyzing gun violence*. The Sixth International Conference on Teaching Statistics. Cape Town, South Africa.
- Mukhopadhyay, S., & Greer, B. (2002, July). *Six characters in search of an answer*. 26th Meeting of International Group for the Psychology of Mathematics Education, University of East Anglia, England.
- Greer, B., & Mukhopadhyay, S. (2002, June). *Mathematics as praxis*. International Society for Cultural Research and Activity Theory (ISCRAT), Amsterdam, the Netherlands.
- Greer, B., & Mukhopadhyay, S. (2002, April). *Interpretations of mathematical literacy*. Symposium, Research Presession, 80th Annual Conference of the National Council of Teachers of Mathematics (NCTM), Las Vegas, NV.
- D'Ambrosio, U., Frankenstein, M., Gilmore, G., Gore, H., Mukhopadhyay, S., Powell, A. B., Sims, J., & Schaffer, K. (2002, April). *Directions in ethnomathematics: The arts as a case study*. 80th Annual Conference of the National Council of Teachers of Mathematics (NCTM), Las Vegas, NV.
- Lobato, J., & Mukhopadhyay, S. (2002, April). *Learning from the learners' perspectives in mathematics classes*. Symposium on *International perspectives on mathematics classrooms*. Annual Conference of American Educational Research Association, New Orleans, LA.
- Mukhopadhyay, S. (2002, February). *Ethnomathematics: A viable curriculum framework to teach ALL children*. Annual Conference of Greater San Diego Mathematics Council, San Diego, CA.

- Mukhopadhyay, S. (2001, April). *Culture and mathematics: Investigating Native American artifacts*. 79th Annual Conference of the National Council of Teachers of Mathematics, Orlando. FL.
- Mukhopadhyay, S., & Silverman, F. (2001, April). *The role of play in children's understanding of mathematics*. 79th Annual Conference of National Council of Teachers of Mathematics, Orlando. FL.
- Mukhopadhyay, S., & Greer, B. (2001, February). *Mathematics for socio-political criticism: The issue of gun violence*. International Conference on Science, Technology and Mathematics Education for Human Development, Goa, India.
- Greer, B., & Mukhopadhyay, S. (2001, February). *Democratizing mathematics education*. International Conference on Science, Technology and Mathematics Education for Human Development, Goa, India.
- Mukhopadhyay, S. (2000, December). *Social justice and mathematics: When Barbie goes to school*. 43rd California Mathematics Council Annual Conference, Asilomar Conference Grounds, Monterey, CA.
- Greer, B., & Mukhopadhyay, S. (2000, December). *Mathematical modeling as a tool for critical thinking*. 43rd California Mathematics Council Annual Conference, Asilomar Conference Grounds, Monterey, CA.
- Mukhopadhyay, S. (2000, February). *Mathematics in culture: Is ethnomathematics a viable model for teaching?* The Annual Conference for The Washington Center for Improving the Quality of Undergraduate Education, Evergreen State College, Olympia, WA.
- Mukhopadhyay, S. (2000, April). *Ethnomathematics in school: An alternative curricular approach*. 78th Annual Conference of National Council of Teachers of Mathematics, Chicago, IL.
- Mukhopadhyay, S. (1999, December). *Social justice and mathematics: When Barbie goes to school*. 42nd California Mathematics Council Annual Conference, Asilomar Conference Grounds, Monterey, CA.
- Mukhopadhyay, S. (1999, April). *Ethnomathematics: Mathematics and cultural connections through applications, examples, and reflections*. 77th Annual Conference of National Council of Teachers of Mathematics, San Francisco, CA.
- Mukhopadhyay, S. (1999, April). *Messages from young leaders: A case in youth activism*. National Planning Conference of American Planning Association, University of Washington, Seattle, WA.

- Mukhopadhyay, S. (1998, January). *Barbie dolls and Nike shoes: Mathematics and social justice*. Annual Conference of Mathematical Association of America: Preconference Session in Honor of Ubiratan D'Ambrosio, Baltimore, MD.
- Mukhopadhyay, S. (1997, July). *Learning to teach, teaching to learn*. Twelfth International Congress on Personal Construct Philosophy, University of Washington, Seattle. WA.
- Mukhopadhyay, S. (1997, April). *Pedagogy and the oppressed, or, what happens when mathematics is a cultural construction*. Annual Conference of Pedagogy and Theatre of the Oppressed, Omaha, NE.
- Mukhopadhyay, S., Chenault, C., Conners, M., Purcell, D., Richards, D., & Ward, S. (1996, November). *Looking at mathematics learning through the multicultural lens: Experiences of first-year graduate students*. Annual Meeting of National Association for Multicultural Education, St. Paul, MN.
- Mukhopadhyay, S. (1996, October). *Mathematics for multicultural minds*. 35th Northwest Mathematics Conference, Portland, OR.
- Mukhopadhyay, S. (1996, July). *In search of a new "commodity": Language as a commodity in a learner's mind*. Working Group 2, Forms of Mathematical Learning. Eighth International Congress on Mathematical Education, Seville, Spain.
- Mukhopadhyay, S., & Hovis, L. (1995, October). *Mathematics and visual thinking: A necessary bridge for classroom practice*. 34th Northwest Mathematics Conference, Seattle, WA.
- Waxman, B., & Mukhopadhyay, S. (1995, October). *Opening the golden rectangle: Playing with perception*. 34th Northwest Mathematics Conference, Seattle, WA.
- Mukhopadhyay, S. (1995, April). *Story telling as sense-making: Children's ideas about negative numbers*. International Conference on Regional Collaboration in Mathematics Education, Melbourne, Australia.
- Mukhopadhyay, S., & Lowenbraun, S. (1995, January). *Mathematics as a multicultural expression*. Poster presentation. Multicultural Education Infusion Center, San Diego State University, San Diego, CA.
- Mukhopadhyay, S., & Warfield, V. (1994, November). *What possibilities come to hand? Designing a course by inspired opportunism*. Mathematics and Education Reform Forum (MER), Baton Rouge, LA.
- Mukhopadhyay, S. (1994, February). *Story problems or problem stories: Children's ideas of math in school*. Annual Meeting of the Society of Cross-cultural Research, Santa Fe, NM.

- Mukhopadhyay, S. (1993, August). *Self-portrait : A tool for understanding teaching mathematics*. Third International Seminar on Misconceptions and Educational Strategies in Science and Mathematics, Cornell University, Ithaca, NY.
- Mukhopadhyay, S. (1992, August). *Tell me a story: Children's response to "story math"*. Seventh International Congress on Mathematical Education, Quebec, Canada.
- Mukhopadhyay, S. (1991, November). *On the mental models of prospective elementary school teachers*. 90th Annual Meeting of the American Anthropological Association, Chicago, IL.
- Mukhopadhyay, S. (1991, April). *Is learning mere observing?* Annual Meeting of Society for Applied Anthropology, Charlestown, SC.
- Mukhopadhyay, S. (1990, July). *Older adults' evaluation of computer hardware and manuals*. Poster presentation. 22nd International Congress of Applied Psychology, Kyoto, Japan.
- Mukhopadhyay, S., Resnick, L., & Schauble, L. (1990, July). *Social sense making in mathematics: Children's ideas on negative numbers*. 14th conference of the International Group for the Psychology of Mathematics Education, Oaxtepec, Mexico.
- Mukhopadhyay, S. (1989, November). *Understanding of negative numbers: An everyday perspective in small business*. 88th Annual Meeting of the American Anthropological Association, Washington, DC.
- Peled, I., Resnick, L., & Mukhopadhyay, S. (1988, July). *Formal and informal sources of mental models for negative numbers*. 13th conference of the International Group for the Psychology of Mathematics Education, Paris, France.
- Silver, E. A., Mukhopadhyay, S., & Gabriele, A. J. (1989, April). *Referential mappings and the solution of division story problems involving remainders*. Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Mukhopadhyay, S., & Broadbent, F. (1989, April). *Children's spatial thinking: An analysis from the social context perspective*. Annual Conference of the American Educational Research Association, San Francisco, CA.
- Peled, I., Resnick, L., & Mukhopadhyay, S. (1988, November). *Formal and informal sources of mental models for negative numbers*. Poster presentation. Annual Meeting of the Psychonomic Society, Chicago, IL.
- Mukhopadhyay, S. (1988, June). *Rural children's response to Piagetian conservation tasks: An ecological analysis*. Annual Symposium of the Jean Piaget Society, Philadelphia, PA.

Mukhopadhyay, S. (1988, April). *An ecological analysis of cognitive functioning of rural children from three castes in India*. Poster presentation. Annual Meeting of the American Educational Research Association, New Orleans, LA.

Mukhopadhyay, S. (1987, July). *Consequences of occupational experience in cognitive development of children: A case from rural India*. Poster presentation. 95th Annual Convention of American Psychological Association, New York, NY.

Mukhopadhyay, S. (1987, July). *On the drawing of solid stimuli: The scaling of responses of rural Indian children from specific occupational backgrounds*. Poster presentation. 11th Conference of the International Group for the Psychology of Mathematics Education, Montreal, Canada.

Mukhopadhyay, S. (1987, January). *The influence of occupational experience in spatial development of children in a rural Indian setting*. Third Annual Conference on Thinking, Honolulu, Hawaii.

Mukhopadhyay, S. (1988, July). *Spatial skills of children in three different occupational groups: A report on the preliminary findings*. 8th International Congress of Cross-Cultural Psychology, Istanbul, Turkey.

Mukhopadhyay, S. (1986, May). *Looking at spatial skills in children from three different occupational groups: Issues in construction and implementation of culture-fair instruments*. Annual Symposium of the Jean Piaget Society, Philadelphia, PA.

Chair/Symposium

Mukhopadhyay, S. (2012, November). With Isabelle Zinn, *Crossing into the digital age: Workers redefined*. 111th Annual meeting of the Anthropological Association of America, San Francisco, CA.

Creator/organizer - public lecture series

*The Sixth Series Alternative Forms of Knowledge Construction in Mathematics*¹. (2011, April-June). Speakers: G. Cajete (University of New Mexico), M. Gholson (University of Illinois, Chicago), and L. Lacroix (Brock University).

The Fifth Series Alternative Forms of Knowledge Construction in Mathematics. (2010, April-June). Speakers: J. Kellermeier (Tacoma Community College), and R. Gutierrez (University of Illinois Urbana-Champaign).

The Fourth Series Alternative Forms of Knowledge Construction in Mathematics. (2009, April-June). Speakers: C. Jordan (Seattle), W-M. Roth (University of Victoria), E. Gutstein (University of Illinois, Chicago), and D. B. Martin (University of Illinois, Chicago).

¹ All lectures in streaming video format are available at <http://www.media.pdx.edu/dlcmmedia/events/AFK/>

The Third Series Alternative Forms of Knowledge Construction in Mathematics. (2008, April-June). Speakers: J. Lipka (University of Alaska, Fairbanks), and M. Civil (University of Arizona).

The Second Series Alternative Forms of Knowledge Construction in Mathematics. (2007, April- June). Speakers: D. Orey (CSU-Sacramento), G. Urton (Harvard University), and A. J. Powell (Rutgers University).

The First Series Alternative Forms of Knowledge Construction in Mathematics. (2006, April- June). Speakers: C. Julie (University of Western Cape, South Africa), F. Swetz (Penn State, Harrisburg), R. Eglash, (Rensselaer Polytechnic Institute, Troy), M. Ferreira (San Francisco State University), and M. Frankenstein (University of Massachusetts, Boston).

Honors, Grants, and Fellowships

Fellowships

Academy of Finland <i>Concept formation and volition in collaborative work</i> PI: Y. Engeström, Center for Activity Theory and Developmental Work Research, University of Helsinki, Finland.	2011-2014
Senior fellowship, American Institute of Indian Studies, Chicago <i>Vernacular engineering of boat builders in the Bay of Bengal</i>	11/11-5/12
Visiting fellowship, Sealaska Heritage Institute, Juneau, AK. (honorary position)	6/08-9/08
Junior Fellowship, American Institute of Indian Studies, Chicago <i>Spatial skills among three different occupational groups in India</i>	9/84-9/85
Summer Fellowships, Syracuse University, New York. \$500	1982, 83, 84

Grants

Portland State University, Cradle to Career planning grant <i>The mathematics greenhouse: Growing leadership in math learning</i> PI: K. Marrongelle, Mathematics, Portland State University Co-PIs: S. Mukhopadhyay, E. Thanheiser, L. C. Foreman, R. W. Roeser, & D. Truxilo. \$12500	2011
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Diversity Action Council, PSU, Addressing Diversity mini-grant <i>Addressing diversity: Interrogating the knowledge construction process VI</i> PI: S. Mukhopadhyay \$1500	2010
Faculty Enhancement grant, PSU <i>Alternative forms of knowledge: In search of vernacular engineering in India</i> PI: S. Mukhopadhyay \$3128	2009
Diversity Action Council, PSU, Addressing Diversity mini-grant <i>Addressing diversity: Interrogating the knowledge construction process V</i> PI: S. Mukhopadhyay \$1200	2009
Center for Academic Excellence mini-grant, Portland State University. <i>Building mathematical knowledge with the Portland Youth Builders</i> PI: S. Mukhopadhyay \$500	2009
Spencer Foundation <i>Socially relevant mathematics education</i> PI: B. Greer Co-PI: S. Mukhopadhyay, B. Atweh, & E. Gutstein \$481,305 [unfunded]	2009
Center for Academic Excellence Mini-grant, Portland State University. <i>Achievement gaps revisited: Students' interpretations of mathematics questions on standardized tests</i> PI: S. Mukhopadhyay \$500	2008
Diversity Action Council, PSU, Addressing Diversity mini-grant <i>Addressing diversity: Interrogating the knowledge construction process IV</i> PI: S. Mukhopadhyay \$2000	2008
Faculty Enhancement grant, PSU <i>Making baskets: Ethnomathematics of the Tlingit Indians</i> PI: S. Mukhopadhyay \$7120	2008
Faculty Grant for Research/Scholarship, Graduate School of Education, PSU <i>Making baskets: Ethnomathematics of the Tlingit Indians</i> PI: S. Mukhopadhyay	2008-09

\$7810

Diversity Action Council, PSU, Addressing Diversity mini-grant 2007
Addressing diversity: Interrogating the knowledge construction process III
PI: S. Mukhopadhyay
\$1500

Diversity Action Council, PSU, Addressing Diversity mini-grant 2006
Addressing diversity: Interrogating the knowledge construction process II
PI: S. Mukhopadhyay
\$1500

Center for Academic Excellence Mini-grant, Portland State University. 2006
Addressing diversity: Alternative forms of knowledge construction process I
PI: S. Mukhopadhyay
\$500

Title II Grant 2006
Developing a statewide content area teacher network
PI: S. J. Lenski
Co-PI: M. Caskey, S. Mukhopadhyay, & R. Narode.

Carnegie Corporation 2006
Reading texts to learn content: Redesigning the preparation of science and math teacher candidates to promote adolescent reading comprehension
PI: S. J. Lenski, GSE
Co-PI: M. Caskey, B. Greer, S. Mukhopadhyay, & R. Narode.
\$100,000

Diversity Action Council, PSU, Addressing Diversity mini-grant 2006
Addressing diversity: Interrogating the knowledge construction process I
PI: S. Mukhopadhyay
\$2000

Scholarship of Teaching Resource Team, Portland State University, mini-grant 2005
Social justice: The point of view of the adjunct faculty of the Graduate School of Education
PI: S. Mukhopadhyay
\$500

Diversity Action Council, PSU, Addressing Diversity mini-grant: 2004
Mathematics and its cultural connections
[unfunded]

Scholarship of Teaching Resource Team, Portland State University, mini-grant 2004

<i>Preparing teachers to teach mathematics for social justice and connection to people's lives</i> PI: S. Mukhopadhyay \$500	
PSU, Faculty Enhancement Grant, <i>Sustainable community-based teacher preparation.</i> [Unfunded]	2004
Wenner-Gren Anthropological Foundation, New York. <i>Anthropology informing education: Conference on ethnomathematics.</i> [Unfunded]	2003
Diversity Action Council, Portland State University, faculty mini-grant. <i>Ethnomathematics of the Northwest coast Indians.</i> PI: S. Mukhopadhyay \$500	2003
Scholarship of Teaching Resource Team, Portland State University, mini-grant <i>Reading the world in the words: Mathematics in everyday context.</i> PI: S. Mukhopadhyay \$800	2003
Curriculum Transformation mini-grant, Center for Teaching and Learning, San Diego State University, San Diego. (With V. Pang) <i>Civil rights through mathematics education: Integrating liberatory education into teacher preparation.</i> PI: S. Mukhopadhyay \$1000	2001
Royalty Research Fund, University of Washington. Year-long project: <i>Mathematics as a thinking activity: Development of new assessment techniques.</i> PI: S. Mukhopadhyay \$1500	1993
U.S. Department of Education <i>Identifying and nurturing early mathematical talents.</i> PI: N. Robinson, University of Washington, Seattle, WA. Co-PI: V. Berninger, University of Washington, Seattle, WA.	1993-95
Curriculum Transformation Project, University of Washington. Development of a new course: <i>Mathematics as a cultural expression.</i> PI: S. Mukhopadhyay \$1000	1993

Taraknath Das Foundation, South Asia Studies Center, Columbia University, New York. 1986-87
 PI: S. Mukhopadhyay
 \$1500

Senate Research Committee Grant, Syracuse University. 1986
 PI: S. Mukhopadhyay
 \$5000

Research Collaborations

Member of international scientific network on *Developing flexible and adaptive thinking* based at Leuven University, Belgium. 2008-present
 Supported by Flanders Fund for Scientific Research.

Sealaska Heritage Institute, Juneau, AK. 6/2008-9/2009

Jadavpur University, Kolkata, India. 10/2011-4/2012

Scholarly Works in Progress

Articles

Mukhopadhyay, S. (In preparation). *Achievement gap revisited: Tales from the third graders on math test.* (tentative title)

Mukhopadhyay, S. (In preparation). *Ethnomathematics.* (tentative title)

Mukhopadhyay, S., & Greer, B. (In preparation). *Tax & discount problem: Crossing boundaries between activity systems.* (for *Mind, Culture and Activity*)

Mukhopadhyay, S. (In preparation). *Tlingit cultural knowledge* (tentative title)

Books

Greer, B. & Mukhopadhyay, S. (In preparation). *Education for reading and writing the world with mathematics.* (Tentative title) Critical Perspectives Series: A Book Series Dedicated to Paulo Freire Donaldo Macedo. Lanham, MD: Rowman & Littlefield.

Book Reviews

Greer, B. & Mukhopadhyay, S. (In preparation). [Review of the book *Mapping equity and quality in mathematics education*] *Educational Studies in Mathematics.*

Teaching, Mentoring and Curricular Activities

Cohorts lead at *Portland State University* 2002 – present

K – 8 *Culture and Cognition* cohort 2008 – 2009

Leading a cohort of twenty-one students with W. Parnell as the co-leader.

K – 8 *Culture and Cognition* cohort 2006 – 2007

Leading a cohort of forty-two students with J. Temple as the co-leader.

K – 8, *Culture and Cognition* cohort 2004 – 2005

Lead a cohort of twenty-eight students with G. Thieman as the co-leader.

Secondary Math and Science Teachers cohort, 2003 – 2004

Co-lead a cohort of twenty-four secondary mathematics and science teachers with R. Narode as the cohort leader.

Courses taught at *Portland State University* 2002- present

[* Indicating new courses]

Term	Course Number	Course Title	Number of Credits	Enrollment
Fall 2010	CI 518	Integrated Methods III: Math	3	18
	CI 603	Dissertation	1	1
	CI 605	R&C: Undrstandg Sch Struct	1	1
	ED 660	Research Paradigms & Methods	4	16
Winter 2011	CI 510	TOP: Mathematics & Culture	3	2
	CI 510	Issues Math Lit: Ethnomath	3	8
	CI 518	Integrated Methods III: Math	3	36
	CI 603	Dissertation	1	1
Spring 2011	CI 410/510	TOP: Math Methods	3	7
	CI 410/810	Expl Alternat Knowledge Math	1	3
	CI 505	R&C: Dev. Cult Resp Curricu	1	1
	CI 603	Dissertation	1	1
Summer 2011	CI 603	Dissertation	1	1
Fall 2009		<i>Sabbatical</i>		
Winter 2010		<i>Sabbatical</i>		
Spring 2010		<i>Sabbatical</i>		
Summer 2010		<i>Sabbatical</i>		
Fall 2008	CI 510*	TOP: Math & Culture	3	9
	CI 518	Integrated Methods III Math	3	21
	CI 606	PROJ: Learning Web Algebra	5	1

	CI 810	NW Math Conference	1	24
	EPFA 606	PROJ: Fnds of Ed Admin	4	1
Winter 2009	CI 515	Reflective Practitioner	1	19
	CI 602	IS: Home School Connection	1	1
	CI 605	R&C: Exploring Methodologies	4	1
	ED 661	Qualitative Research Meth in Ed	4	15
	ELP 602	IS: Theory & Resch Ed Admin	4	1
Spring 2009	CI 506	Living Large: Design in Curr	4	1
	CI 515	Reflective Practitioner	2	19
	CI 602	IS: Developing Methodologies	3	1
	CI 605	R&C: Literature Review	4	1
	ED 610	Dissertation proposal development	2	5
Summer 2009	CI 810	Expl Alternat Knowledge Math	1	15
Fall 2007	CI 506	PROJ: Teacher as Researcher	4	1
	CI 518	Integrated Methods III: Math	3	16
	CI 605	R&C: Culture and Learning	1	1
	ED 630	Principles & Practices of Learning	4	16
Winter 2008	CI 510	Issues in Math Lit: Ethnomath	3	8
	CI 515	Reflective Practitioner	2	24
	CI 602	IS: Core Preparation Project	1	1
	CI 605	R&C: School & Community	1	1
	ED 610	TOP: Dissertation Proposal Dev	2	3
	ED 661	Qualitative Research Methods	4	20
Spring 2008	CI 410	TOP: Math Methods	3	12
	CI 502	IS: Classroom Relationship	1	1
	CI 510	TOP: Math Methods	3	13
	CI 515	Reflective Practitioner	1	21
	CI 602	IS: Situated Cognition	2	1
Summer 2008	CI 502	IS: Exploration of Drama in Class	1	1
	CI 502	IS: Music & Brain	1	1
	CI 502	IS: Spanish Literacy	2	1
	CI 502	IS: Teaching Writing in Class	2	1
	CI 510	TOP: Eng Lang Learners & Tchng	2	2
	CI 606	PROJ: Explr Learner's Web Alg	3	1
	CI 810*	TOP: Knowledge Constr in Math	1	5
Fall 2006	CI 518	Integrated Methods III: Math	3	26
	CI 518	Integrated Methods III: Math	3	25

	CI 605	R&C: Explore Equity & Science	1	1
	ED 630	Principles & Practices of Learning	4	25
Winter 2007	CI 510	Issues in Math Literacy: Ethnomath	3	12
	CI 501	RES: Grant Writing	1	1
	CI 505	R&C: Math Cultural Praxis	3	1
	CI 601	RES: Historical Analysis	3	1
	CI 605	R&C: Customizing Stdnt Lrng	4	1
Spring 2007	CI 410/510	TOP: Math Methods	3	12
	CI 510	TOP: Professional Development	1	38
	CI 515	Reflective Practitioner	3	38
Summer 2007	CI 502	IS: Exploring Alt Knowledge Math	3	1
	CI 810	TOP: Knowledge Constr Math	1	5
Fall 2005	CI 518	Integrated Methods III:Math	3	31
	CI 518	Integrated Methods III:Math	3	29
	CI 601	RES: Curriculum Design Math	3	1
	CI 605	Spanish/English Interpretations	1	1
Winter 2006	CI 510	Issues in Math Literacy: Ethnomath	3	9
	CI 518	Integrated Methods III: Math	3	24
	ED 510	TOP: Methods Teaching Math	3	24
	ED 610	TOP: Disst Proposal Develop	1	8
Spring 2006	CI 410/510	TOP Math Methods	3	16
	CI 505	R&C: Achievement Gap	3	1
	CI 560	Action Research	3	15
	CI 565	Theoretical Models of Curriculum	3	28
Summer 2006	CI 512	Teaching & Learning	3	26
	CI 512	Teaching & Learning	3	29
	CI 810*	TOP: Alternative Knowld in Math	1	3
Fall 2004	CI 515	Reflective Practitioner	1	29
	CI 518	Integrated Methods III: Math	3	29
	CI 605	R&C: Community Working Chan	1	1
Winter 2005	CI 510	Issues Math Literacy: Ethnomath	3	10
	CI 515	Reflective Practitioner	1	29
	CI 602	IS: Lifelong Learning	1	5
Spring 2005	CI 510*	Learning & Teaching Math ECE	3	4
	CI 410/510	TOP Math Methods	3	9

	CI 515	Reflective Practitioner	1	27
Summer 2005	CI 502	IS: Elementary Math & Software	3	1
Fall 2003	CI 509	Practicum	3	23
	CI 510	TOP: Professional Develop - Sec	3	23
	CI 518	Integrated Methods III: Math	3	32
	CI 518	Integrated Methods III: Math	3	29
Winter 2004	CI 515	Reflective Practitioner	3	24
	ED 510	TOP: Methods Teaching Math	3	20
Spring 2004	CI 410/510	TOP: Math Methods	3	19
Summer 2004	CI 512	Teaching & Learning	3	31
Fall 2002	CI 518	Integrated Methods III: Math Supervision of Student Teachers	3	28
Winter 2003	CI 517	Integrated Methods II	2	22
Spring 2003	CI 410/510	TOP: Math Methods	3	17
	CI 510*	TOP: Issues in Math Literacy	3	9
	CI 518	Integrated Methods III: Math	2	27
Summer 2003	CI 605	R&C: Teacher Professional Lrng	1	1

Graduate courses taught at *San Diego State University*. (2000-2002).

TE 601A Seminar in Mathematics Education: Special Topics: Mathematics as a cultural construction * (new course)

TE 910A Teaching Mathematics in Elementary Schools

Undergraduate courses taught at *Seattle Central Community College, Seattle*. (1999-2000).

MAT 098 Intermediate Algebra

MAT 110 Math applications for the Culinary Arts

MAT 081 Basic Mathematics (Developmental mathematics for adult learners)

Graduate courses developed and taught at *Antioch University, Seattle*. (1998-1999).

Mathematics methods I and II

Graduate courses developed and taught at the *University of Washington, Seattle*. (1991-1998).

EDC&I 375 *Mathematics in the Elementary School*

EDC&I 475 *Improvement of Teaching Elementary School Mathematics*
 EDC&I 475* *Mathematics as a Tool-kit*(new course)
 EDC&I 475 *Improvement of Teaching: Mathematics in Elementary School*
 EDC&I 494 *Workshop: Improving Curricula (Numeracy)*. [Co-planned and co-taught with V. Warfield]
 EDC&I 479* *Mathematics for Multicultural Minds*
 EDC&I 496* *Making the Bridge: Teaching Math from the Multicultural Perspective*
 EDC&I 505* *Mathematics as a Cultural Expression*
 EDC&I 505 *Constructivism and Mathematics Learning*. [Co-taught with J. Beal]
 EDC&I 505 *What Math does a Child know: Assessment of Mathematical Thinking in Elementary Schools*
 EDC&I 505* *Teaching Mathematics at Urban Schools*
 EDC&I 575 *Research in Mathematics Education (Elementary)*
 EDC&I 576 *Research in Mathematics Education (Secondary)*
 EDTEP 521 *Topics and Issues in Numeracy*
 EDTEP 522 *Teaching, Learning, and Assessment in Numeracy*

Courses developed and taught at *West Virginia University, Morgantown* 1990-1991

C&I 130 *Early childhood and elementary school mathematics* (undergraduate, preservice)
 C&I 330 *Elementary school mathematics* (graduate, inservice)

Graduate course co-planned and co-taught at *Teachers College, Columbia University* 1990
 TK4120 *Alternative methods in empirical research* (with H. Ginsburg)

Other Teaching, Mentoring and Curricular Activities

Doctoral Committee Member (Graduate School of Education)

Alazzam-Alwidyan, Suad (2009-2010). *A critical analysis of the Jordanian national English language curriculum planning discourse*. Advisor: Susan J. Lenski. Member for the Core Paper, Specialty, Dissertation Proposal, and Dissertation committee.

Beining, Steven (2011). *The National Education Technology Plan 2010 and new possibilities for systemic innovation: A guide for policy makers and educational technology leaders*. Advisor: Tom Chenoweth. Member for the Core Paper Committee.

Boesch, Becky (2008). *Immigrant students and the college classroom climate in higher education*. Advisor: Joan Strouse. Member of the Dissertation Proposal and Dissertation Committee.

Draper, Dan (2011). *Guiding the work of professional learning communities: Perspectives for school administrators*. Advisor: Tom Chenoweth. Member for the Core paper committee.

- Duncan, Susan (2010) *Re-framing assessments for environmental literacy with students assigned to middle schools in three ecoregions*. Advisor: Swapna Mukhopadhyay. Member of the Core Paper Committee.
- Fenyvesi, Shamu (2006). *Doing science in the community: Collaborative action research on/for participation and science learning of marginalized middle school students*. Advisor: Ron Narode. Member of the Dissertation Committee.
- Ferner, Bernd (2011). *Between language, culture and math: Responding to diverse learners in mainstream classrooms*. Advisors: Karen Noordhoff & Samuel Henry. Member of the Core paper committee.
- Hastings, Tom. H. (2012). *Public peace intellectuals: Understanding voices absent from mainstream media*. Advisor: Swapna Mukhopadhyay. Member of the Core Paper, Specialty, Dissertation Proposal, and Dissertation Committee.
- Kwong, Jolina (2009 -present). *Undergraduate research experiences and the urban commuter university: Improving the involvement of first-generation, low-income, undergraduate urban students*. Advisor: Michael J. Smith. Member of the Specialty, and Dissertation Proposal Committee.
- Murphy-Harris, Amanda (2011). *The under serving of Hispanic students in United States education*. Advisor: Ron Narode. Member for the Core Paper Committee.
- Otsuki, Yumiko. (2005-2009). *Teacher's role in the education of linguistically and culturally diverse students*. Advisor: Joan Strouse. Member of Specialty, Dissertation Proposal, and Dissertation Committee.
- Peterson, Deborah (2005). *The slow response of schools and districts to develop effective program models for English Language Learners: An analysis from the perspective of policy and politics, teaching and learning, leadership, and research*. Advisor: D. Williams. Member of the Core Paper Committee.
- Samek, Linda (2003). *Designing powerful tasks to expose and replace probabilistic and statistical misconceptions of preservice elementary and middle school teachers as a model for effective professional development practice*. Advisor: Ron Narode. Member of the Dissertation Committee.
- Smith-Byron, Amanda (2011). *Storytelling as loving praxis in critical peace education: A grounded theory study of postsecondary social justice educators*. Advisor: Ramin Farahmandpur. Member for the Dissertation Proposal, and Dissertation Committee.
- Young, Jerry (2011). *Roots of the 'Math Wars': Epistemology, policy, organization & research paradigm*. Advisor: Ron Narode. Member for the Core paper committee.

Doctoral Committee Member (Outside the Graduate School of Education)

Anderson, Rick (2006). *Mathematics, meanings, and identity in a rural community*. Advisor: Karen Marrongelle, Mathematics.

Bartlo, Joanna (2011). *Why ask why: An exploration of the role of proof in mathematics classroom*. Advisor: S. Larson, Mathematics. Member of the Dissertation Proposal Committee.

Marchand, Gwen (2008). *Motivating students to take academic responsibility: A longitudinal analysis*. Advisor: Ellen Skinner, Psychology.

Noll, Jennifer (2007). *Graduate teaching assistants' content and pedagogical content knowledge in sampling situations*. Advisor: Karen Marrongelle, Mathematics.

Sitomer, Ann (2011). *Proportional reasoning abilities of students taking pre-college level community college mathematics course*. Advisor: Karen Marrongelle, Mathematics. Member of the Dissertation Proposal Committee.

Masters Committee Member

Beatty, Gaylen (2007). *Clean rivers education program, Bureau of Environmental Services*. Advisor: Julie Smith, Center for Science Education.

O'Mailey, Sean (2007). *The internationalization of higher education in Korea: An assessment of state reform policies for four-year undergraduate universities*. Advisor: Mel Gurtov. Political Science.

Polster, Mathew (2007). The effect of a general education science course on the kind of information students seek when evaluating scientific claims in the media. Advisor: Julie Smith, Center for Science Education.

Doctoral Advisor (Graduate School of Education)

Marla Baber (2007 admit)
Teresa Berry (2010 admit)
Susan Duncan (2008 admit)
Tom Hastings (2006 admit)

Masters advisor (Curriculum & Instruction)

Jaimi Doan (2005 admit)
Laura Pappas (2007 admit)
Kate Peterson (2007 admit)
Janet Sanders (2005 admit)
Chris Stanton (2011 admit)
Alesia Weber (2011 admit)

Governance and Other Professionally Related Services

Service to Portland State University

Member, Internationalization Council (2012-2013)>

Member, Graduate Studies Council (2012-2014).

Member, Member, University Studies Council (2008-2009).

Member, Commission on Status of Women (2007-2009; 2010-2011).

Member, Portland State University Chapter of National Coalition Building Institute (9/2005-2007).

Member, Diversity Recognition Scholarship Selection Committee, Portland State University (2005-2006).

Member, President's Diversity Action Council, Portland State University (2004-2006).

Fellow Center for Learning and Teaching in the West, Portland State University (2002-2009).

Member, Graduate Council, Portland State University (2003- 2004).

Service to the Graduate School of Education

Member, Promotion and Tenure Committee (2008-2009; 2010-2011).

Chair, Post-tenure Review Committee, Curriculum & Instruction (2010-2011).

Chair, Doctoral Program Committee (2007-2008).

Faculty advisor, Off campus MA/MS program (2007-2010).

Member, Graduate School of Education, Doctoral Program Committee (2002-2008).

Member, Fall Retreat, Curriculum & Instruction (2004-05).

Co-leader, Social Justice Research Forum (5/2005-2006).

Membership of Professional Societies

American Anthropological Association (1989-2000).

American Association of Curriculum Development (1997-1999).

American Educational Research Association (1984-1990; 2002-present).
 American Psychological Association (1987-1989).
 International Group for the Psychology of Mathematics Education (1984-present).
 International Study Group on Ethnomathematics (1996-present).
 International Study Group on Ethnomathematics, North American chapter (2002- present).
 Jean Piaget Society of Genetic Epistemology (1986-1993).
 National Council of Teachers of Mathematics (1983-present).
 National Association of Multicultural Education (1996-1999; 2002-present).
 Phi Delta Kappa (1982-1985).
 TODOS – Mathematics for All (2004-present).

Professional Services

International

Reviewer, epiSTEME 5 (<http://episteme5.hbcse.tifr.res.in/index.php/episteme5/5>), 2012.

Member, Planning Committee for the bi-annual international conference of Mathematics Education and Society (2010-present).

Member/Secretary (2008). Discussion Group 3: Mathematics Education: For what and why? *International Congress on Mathematics Education (ICME 11), Monterrey, Mexico.*

Planning member (2008). Topic Study Group 21, Mathematical applications and modelling in the teaching and learning of mathematics. *International Congress on Mathematics Education (ICME 11), Monterrey, Mexico.*

Ph.D. Thesis Examiner (2006). University of Western Cape, Bellville, South Africa. T. V. Lebeta. Thesis title: *An investigation into pre-service teachers' mathematical behaviour in an application and modeling context.* Advisor: Cyril Julie.

Member/Secretary (2004). Working Group on Modeling Competencies. Applications and Modeling in Mathematics Education, International Commission on Mathematics Instruction (ICMI-14), Dortmund, Germany.

Ph.D. Thesis Examiner (1994). Deakin University, Geelong, Victoria, Australia 3217. Robert Peard. Thesis title: *The effect of social background on the development of probabilistic concepts.* Advisor: M. A. Clements.

National

Member, Consulting team (2012). *Math in Cultural Context* (<http://www.uaaf.edu/mcc/>) Jerry Lipka, University of Alaska, Fairbanks, AK.

Member (2010-present). Planning conference *Creating Balance in an Unjust World.*

Member (2010-11). Advisory Board, *Journal of Transformative Leadership and Policy Studies* (on-line journal at CSU-Sacramento).

Reviewer (2007; 2009-present). *Mathematical Thinking and Learning* (Erlbaum/Taylor & Francis).

Member (2006-08). Editorial Board, *The Montana Mathematics Enthusiast* (Information Age Publishing).

Member & reviewer (2005-present). Editorial Board, *Journal of Mathematics and Culture* (on-line journal).

Reviewer (2004-07; 2010). American Educational Research Association (AERA) proposals for Division G (Social Context of Education).

Co-organizer (2007, October). *Equity in mathematics and science education: Critical issues in leadership development*. Conference for Center for Learning and Teaching in the West (CLT-W). Portland State University, Portland, OR.

Co-organizer (2004, November). *Culturally responsive mathematics education*. Center for Learning and Teaching in the West (CLT-W). Conference, National Science Foundation, Arlington, VA.

Co-organizer (2004, July). ESMELI training for Center for Learning and Teaching in the West (CLT-W). Portland, OR.

Reviewer (2004). Research proposal, Institute for Teacher Development and Research, DePaul University, Chicago.

Co-organizer (2003). Ethnomathematics strand for 46th California Mathematics Council Annual Conference, Asilomar Conference Grounds, Monterey, CA.

Volunteer teacher (2003, September). *The Algebra Project*, Lanier High School, Jackson, MS.

Member. (2001-present). International Study Group on Ethnomathematics, North American chapter.

Member (2001-2002). Advisory board, City Heights Pilot Project, San Diego.

Volunteer (2001-2002). Rosa Parks Elementary School, City Heights Pilot Project, San Diego, CA.

Consultant (2001-2002). *Learning ethnomathematics: A software environment for teacher professional development and students' classroom use*. FIPSE project [PI: Ron Eglash, Lester Rubinfeld (Rensselaer Polytechnic Institute) & Sybillyn Jennings (Russell Sage College)].

Participant (1997). *Children's Mathematical Thinking*. A five-day institute. Organized by Rutgers University & Brigham Young University.

Reviewer (1997). California Mathematics Frameworks

Reviewer (1995-present). *Teaching Children Mathematics*, National Council for Teachers of Mathematics (NCTM).

Reviewer (1995-present). *Mathematics Teaching in the Middle School*, National Council for Teachers of Mathematics (NCTM).

Reviewer (1994-95). Annual Conference of Psychology of Mathematics Education--North America (PME-NA).

Reviewer (1992-94). *The Arithmetic Teacher*, National Council for Teachers of Mathematics (NCTM).

Regional & Local

Volunteer and consultant. Portland Youth Builders. Portland, OR. (2009-present).

Board member, Oregon Outreach, Inc. (2007-present).

Member, Steering Committee, Portland Area *Rethinking Schools*. (2002-present).

Member, OHSU Teacher Advisory Committee for Science Education. (2005-present).

Guest speaker (2010, November). *Mathematics for social justice*. Professor K. Winograd, OSU, Teacher Education Program.

Guest speaker (2010, November). *Situated cognition*. Professor K. Noordhoff. ED 630: *Principles and Practices of Learning*.

Guest speaker (2008, November). *Situated cognition*. Professor K. Noordhoff. ED 630: *Principles and Practices of Learning*.

Guest speaker (2007, October). *Ethics and research*. Professor D. Kim, ED 660 *Research Paradigms and Methods*.

Guest speaker (2007, July). *Ethics and research*. Professor M. Caskey & S. Lenski.

Guest speaker (2007, February). *Culture, equity and access in mathematics*. CI 567 *Curriculum & Culture*. Instructors: Professors J. Temple & Y. Thao.

Guest speaker (2005, October). *Equity and access in mathematics*. CI 567 *Curriculum & Culture*. Instructor: Professor Y. Thao.

Guest speaker (2005, October). *Ethnomathematics*. Senior Capstone. *Mathematics and Society*. Professor M. Latiolais.

Participant (2004, August). Two-day review meeting organized by Teacher Standards and Practices Commission (TSPC) on Oregon Educator Licensure Assessment (ORELA) Multiple Subjects Examination Framework Review. Portland, OR.

Guest speaker (2004, August). Understanding equity in math and science classrooms. Retreat, GTEP Secondary Mathematics and Science Teachers. Oregon Institute of Marine Biology, Charleston, OR. Professor R. Narode.

Participant (2004, May). Advocates for Women in Science, Engineering & Mathematics (AWSEM) Retreat. Saturday Academy, Portland State University, www.saturdayacademy.pdx.edu/

Guest speaker (2004, May). *Ethnomathematics*. Senior Capstone. *Mathematics and Society*. Professor J. O'Halloran.

Guest speaker (2004, January). Cultural experience of schooling. CI 567 *Curriculum & Culture*. Professor Y. Thao.

Co-presenter (with R. Narode). (2003, October). *Cognitive Processes Instruction*. Carnegie Campus Conversation, Portland State University, Portland, OR.

Guest Speaker (2003, July). *Mathematics and popular culture*. EPFA 457/557 *Cultural Pluralism & Urban Education*. Professor R. Farahmandpur.

Guest speaker (2003, April). *Mathematics: The cultural connections*. CI 514 Multicultural & Urban Education. Professor J. Temple.

Guest speaker (2003, March). *Mathematics of the Khipus*. CI567 *Curriculum & Culture*. Professor J. Edmundson.

Organizer & co-coordinator (2003, February). Two-day visit by the civil rights activist and the founder of The Algebra Project, Dr. Bob Moses. Portland State University, Portland, OR.

Consultant (1999). *Mathematics teaching and the Standards*. Olympic View Elementary School, Seattle, WA.

Volunteer Teacher (1997). *Mathematics Class for Adults*. Goodwill Community of Learning, Seattle, WA.

Curriculum Designer & Adviser (1996). *Architecture and design program for youth*, University of Washington, Seattle, WA.

Consultant (1996). John Muir Elementary School, Seattle, WA.

Workshop leader (1996). *Mathematics and writing in elementary classes*. Sultan Elementary School, Sultan, WA.

Member (1996-98). Committee of Student Affairs (COSA), University of Washington, Seattle.

Consultant (1995-2000). *Role of inquiry in mathematics teaching*. Ms. G. Higgins, fifth grade class, McGivilra Elementary School, Seattle School District, Seattle, WA.

Faculty Mentor (1995-98). Early Identification Program, University of Washington, Seattle.

Participant (1993-94). Seminars: Curriculum transformation for science and mathematics. University of Washington, Seattle. WA.

Participant (1993-94). Washington Systemic Initiative Planning Meetings, Seattle, WA.